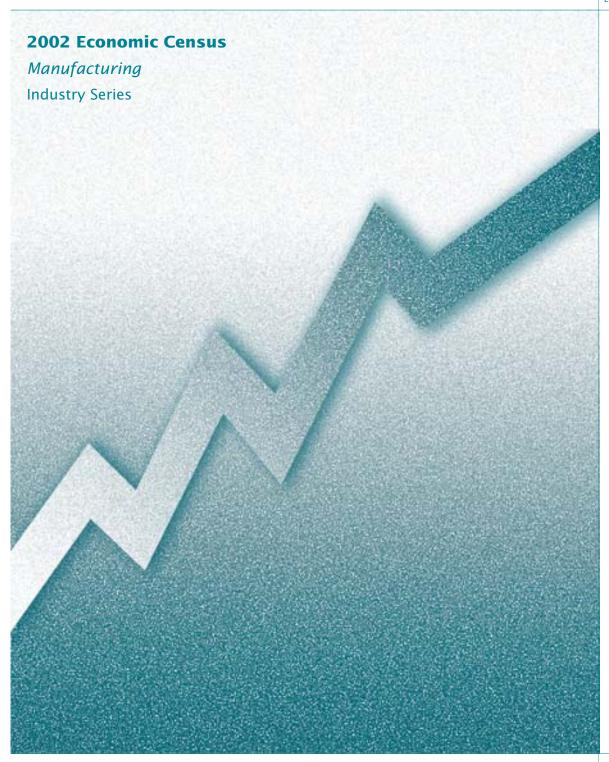
# Copper Wire (Except Mechanical) Drawing: 2002

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U.S. Department of Commerce Economics and Statistics Administration U.S. CENSUS BUREAU



### **CONTENTS**

	duction to the Economic Census	v ix
Table	es	
1. 2. 3. 4. 5. 6a. 6b. 7.	Historical Statistics for the Industry: 2002 and Earlier Years Industry Statistics for Selected States: 2002 Detailed Statistics by Industry: 2002 Industry Statistics by Employment Size: 2002 Industry Statistics by Primary Product Class Specialization: 2002 Products Statistics: 2002 and 1997 Product Class Shipments for Selected States: 2002 and 1997 Materials Consumed by Kind: 2002 and 1997	1 2 3 4 5 6 7 8
Appe	endixes	
A. B. C. D. E. F.	Explanation of Terms NAICS Codes, Titles, and Descriptions Methodology Geographic Notes Metropolitan and Micropolitan Statistical Areas Comparability of Product Classes and Product Codes: 2002 to 1997	A-1 B-1 C-1   F-1

-- Not applicable for this report.

### Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

		All	All employees		Production workers				Total	Total	Total capital
Industry and year <sup>1</sup>	Com- panies <sup>2</sup>	estab- lish- ments <sup>3</sup>	Number <sup>4</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)		expendi- tures (\$1,000)
331422, Copper wire (except mechanical)	70	407	44 400	455.000	0.405	40.750	005 740	4 054 050	4 704 000	0.000.074	04.000
drawing	79 N	107 N	11 480 3 952	455 068 133 305	8 195 2 824	16 753 5 832	265 746 83 618	1 254 658 357 607	1 721 026 421 065	3 020 874 781 947	64 239 26 639
2000	N	N	3 953	135 454	2 851	6 106	87 157	433 043	488 775		28 406
1999	N	N	3 493	110 208		5 333	71 938	363 153	407 660	774 539	36 159
1998 1997	N 33	N 36	4 476 4 238	132 770 124 240	3 428 3 191	6 891 6 593	85 684 82 651	378 141 324 392	662 505 659 613	1 050 400 983 284	58 172 41 788

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

### Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area		All establishments <sup>2</sup>		All employees		Production workers						
		Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)		Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	materials	Total value of shipments (\$1,000)	expendi- tures
331422, Copper wire (except mechanical) drawing												
United States	-	107 7 12	76 3 11	11 480 233 887	455 068 9 514 33 864	8 195 189 603	16 753 400 1 222	265 746 7 277 19 891	1 254 658 23 621 75 536	1 721 026 33 873 161 938	3 020 874 56 292 238 052	64 239 1 054 4 066

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

Includes establishments with payroll at any time during the year.

Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

### Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
331422, Copper wire (except mechanical) drawing	
Companies <sup>1</sup>	79
All establishments <sup>2</sup>	107 31 38 38
All employees³         number           Total compensation         \$1,000           Annual payroll         \$1,000           Total fringe benefits         \$1,000	11 480 602 675 455 068 147 607
Production workers, average for year	8 195 7 907 8 462 8 218 8 164
Production worker hours	16 753 265 746
Total cost of materials         \$1,000.           Materials, parts, containers, packaging, etc., used         \$1,000.           Resales         \$1,000.           Purchased fuels         \$1,000.           Purchased electricity         \$1,000.           Contract work         \$1,000.	1 721 026 1 576 430 79 352 11 601 42 251 11 392
Quantity of electricity purchased for heat and power	770 970 8 855
Total value of shipments         \$1,000           Primary products value of shipments         \$1,000           Secondary products value of shipments         \$1,000           Total miscellaneous receipts         \$1,000           Value of resales         \$1,000           Contract receipts         \$1,000           Other miscellaneous receipts         \$1,000	3 020 874 2 343 751 508 824 168 299 92 021 D
Primary products specialization ratio percent Value of primary products shipments made in all industries \$1,000 Value of primary products shipments made in this industry \$1,000 Value of primary products shipments made in other industry \$1,000	82 2 575 615 2 343 751 231 864
Coverage ratiopercent.	91
Value added	1 254 658
Total inventories, beginning of year         \$1,000.           Finished goods inventories         \$1,000.           Work-in-process inventories         \$1,000.           Materials and supplies inventories         \$1,000.	411 922 203 342 88 997 119 583
Total inventories, end of year         \$1,000           Finished goods inventories         \$1,000           Work-in-process inventories         \$1,000           Materials and supplies inventories         \$1,000	338 005 170 096 77 053 90 856
Gross value of depreciable assets (acquisition costs) at beginning of year         \$1,000           Total capital expenditures (new and used)         \$1,000           Buildings and other structures (new and used)         \$1,000           Machinery and equipment (new and used)         \$1,000           Automobiles, trucks, etc., for highway use         \$1,000           Computers and peripheral data processing equipment         \$1,000           All other expenditures for machinery and equipment         \$1,000           Total retirements         \$1,000           Gross value of depreciable assets at end of year         \$1,000	1 722 384 64 239 5 060 59 179 1 349 9 100 48 730 77 411 1 709 212
Depreciation charges during year\$1,000.	109 266
Total rental payments \$1,000. Buildings and other structures \$1,000. Machinery and equipment \$1,000.	22 470 14 293 8 177
Total other expenses <sup>4</sup> \$1,000 Response coverage ratio <sup>5</sup> percent. Repair and maintenance services of buildings and/or machinery <sup>4</sup> \$1,000 Communications services <sup>4</sup> \$1,000 Legal services <sup>4</sup> \$1,000 Accounting, auditing, and bookkeeping services <sup>4</sup> \$1,000 Advertising and promotional services <sup>4</sup> \$1,000 Expensed computer hardware and supplies and purchased computer services <sup>4</sup> \$1,000 Refuse removal (including hazardous waste) services <sup>4</sup> \$1,000 Management consulting and administrative services <sup>4</sup> \$1,000 Taxes and license fees <sup>4</sup> \$1,000 All other expenses <sup>4</sup> \$1,000	189 926 92 27 543 6 849 5 872 2 720 5 656 3 097 3 512 10 622 9 588 114 466

<sup>1</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.
2Includes establishments with payroll at any time during the year.
3Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.
4Based on Annual Survey of Manufactures (ASM) sample data.
5A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

### Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class			All emp	oloyees	Pi	roduction worke	ers		Total	Total	Total
		All estab- lish- ments <sup>2</sup>	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	capital expendi- tures (\$1,000)
331422, Copper wire (except mechanical) drawing											
All establishments Establishments with —	-	107	11 480	455 068	8 195	16 753	265 746	1 254 658	1 721 026	3 020 874	64 239
1 to 4 employees	9 9 4 3	10 9 12 16 22	26 55 c 566 1 689	799 1 801 D 21 359 58 004	20 44 D 408 1 387	40 92 D 886 2 833	578 1 273 D 14 749 42 482	1 186 2 699 D 37 324 164 472	2 821 6 293 D 80 624 311 169	4 007 9 034 D 125 385 475 336	179 473 D 2 639 7 858
100 to 249 employees	- - -	28 8 1	4 373 2 290 f	156 585 82 483 D	3 229 1 788 D	6 870 3 192 D	99 131 58 079 D	440 712 241 980 D	802 460 289 393 D	1 257 088 543 116 D	23 897 12 675 D
1,000 to 2,499 employees	=	1 -	<u>g</u> _	_ D	D	_ _	_ D	D -	- -	– D	– –
Administrative records <sup>4</sup>	9	23	416	13 885	339	741	9 961	23 133	53 011	75 302	3 377

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

## Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or	Industry or primary product class	All	All employees		Pr	oduction work	ers		Total	Total	Total
product class code		estab- lish- ments <sup>1</sup>	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	capital expendi- tures (\$1,000)
331422	Copper wire (except mechanical) drawing	107	11 480	455 068	8 195	16 753	265 746	1 254 658	1 721 026	3 020 874	64 239
3314222 3314224	Copper and copper-base alloy wire, strand, and cable, made in plants that draw wire	35	3 453	111 977	2 764	5 622	81 308	289 544	394 409	691 540	24 951
3314225	cord sets, made in copper wire drawing plants Copper magnet wire (except fiber optic), made in plants that draw	26	5 069	223 743	3 178	6 707	101 337	587 082	729 557	1 336 113	23 991
	wire	21	2 664	107 916	2 037	3 943	75 475	365 106	570 021	953 256	13 742

<sup>&</sup>lt;sup>1</sup>Includes establishments with payroll at any time during the year.

<sup>2</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

#### Table 6a. Products Statistics: 2002 and 1997

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Dundunt		Number of companies with		Product	shipments
Product code	Product	shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)
331422	Copper wire (except mechanical) drawing	N N	X	X	2 575 615 914 402
3314222	Copper and copper-base alloy wire, strand, and cable, made in plants that draw wire	N N	X	X X	707 440 N
33142221	Bare copper wire for electrical transmission, made in plants that draw wire	N N	X	×	212 301
3314222101	Bare unalloyed copper wire for electrical transmission, made in plants that draw wire	12 N	s N	s N	116 015
3314222106	Bare alloyed copper wire for electrical transmission, made in plants that draw wire	7 N	X	X	96 286 N
33142222	Other copper and copper-base alloy wire, strand, and cable, made in plants that draw wire	N N	X	×	495 139
3314222211	Bare copper and copper-base alloy strand and cable for electrical transmission, made in plants that draw wire	21 N	s N	s N	271 085
3314222216	Other copper and copper-base alloy wire, strand, and cable (including wire cloth, woven wire products, and electrical wire rod), made in plants that draw wire	16	X	×	224 054
3314222Y	Copper and copper-base alloy wire, strand, and cable, made in plants that draw wire, nsk	N N	x x	î X	224 034 N
3314222YWV	Copper and copper-base alloy wire, strand, and cable, made in plants that draw wire, nsk	N N	x x	x x	N
3314224	1997 Copper wire and cable, including apparatus wire, cord, and	Ň	x	î x	N
33142242	flexible cord sets, made in copper wire drawing plants	N N	X	X	1 059 334 N
	flexible cord sets, made in copper wire drawing plants	N N	X X	X X	1 059 334 N
3314224213	Insulated copper wire and cable for electrical transmission, made in copper wire drawing plants	19 N	X	X X	735 339 N
3314224218	Copper apparatus wire and cord and flexible cord sets (except wiring harnesses and fiber optic), made in plants that draw wire <sup>1</sup>	18	X	×	323 995
3314224Y	Copper wire and cable, including apparatus wire, cord, and flexible cord sets, made in copper wire drawing plants, nsk	N N	X X X	×	N
3314224YWV	Copper wire and cable, including apparatus wire, cord, and flexible cord sets, made in copper wire drawing plants,	N	×		IN
3314225	nsk	N N	x	X	N
	Copper magnet wire (except fiber optic), made in plants that draw wire	N N	X X	X X	769 401 N
33142251	Copper magnet wire (except fiber optic), made in plants that draw wire	N N	X	X	769 401 N
3314225100	Copper magnet wire (except fiber optic), made in plants that draw wire <sup>2</sup>	14 N	X	X	769 401 N
331422W	Copper wire (except mechanical) drawing, nsk, total	N N	X	X X	39 440
331422WY	Copper wire (except mechanical) drawing, nsk, total	N N	X X	X X	39 440 -
331422WYWW	Copper wire (except mechanical) drawing, nsk, for nonadministrative-record establishments	N N	X X	X	15 517 -
331422WYWY	Copper wire (except mechanical) drawing, nsk, for administrative-record establishments	N N	X X	X X	23 923

<sup>&</sup>lt;sup>1</sup>This product code is primary to more than one industry. See industries 331319, 331491 and 335999, product codes 331319E101, 331491F100 and 335999B100. <sup>2</sup>For additional detail, see Current Industrial Report MA335J, Insulated Wire and Cable.

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

### Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3314222	Copper and copper-base alloy wire, strand, and cable, made in plants that draw wire	
	United States	707 440
	1997   Connecticut	26 308
	Massachusetts	78 720 N
3314224	Copper wire and cable, including apparatus wire, cord, and flexible cord sets, made in copper wire drawing plants	
	United States	1 059 334
	Massachusetts	148 775 N
3314225	Copper magnet wire (except fiber optic), made in plants that draw wire	
	United States	769 401 N

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

## Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
331422	Copper wire (except mechanical) drawing		
00900001	Total materials	X	1 576 430
33142127	Unalloyed copper and copper-base alloy rods		643 239 422 648
33142119	Copper and copper-base alloy wire for redrawing		234 660 287 903 39 897
33100091	Bare copper and copper-base alloy wire, electrical (excluding wire for redrawing)	88.5	98 421
331000A5	1997   Insulated copper wire and cable	8.0 X	12 248 D
33142147	All other copper and copper-base alloy shapes and forms (including wire bar)	X S 47.2	56 280 149 958 70 559
33100080	All other nonferrous metal shapes and forms (excluding copper and copper-base alloy electrical bare wire, insulated wire and cable, castings, forgings, and fabricated metal products)mil lb2002	D	D
32500045	Chemicals, all types (including propellants)	X	160 068
00970099	All other materials and components, parts, containers, and supplies	X	308 948
00971000	Materials, ingredients, containers, and supplies, nsk	X X X	229 595 86 960 —

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.